



# SPYWOLF

## Security Audit Report



Completed on  
**July 25, 2023**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **ECHO AI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# ECHO AI



## PROJECT DESCRIPTION

### **According to their whitepaper:**

EchoAI is a groundbreaking Telegram bot designed to supercharge community growth through engaging referral contests and reward programs. It sets a new paradigm for crypto community interactions by fostering active participation and rewarding user contributions.

**Release Date:** Presale starts in July, 2023

**Category:** Token



# CONTRACT INFO

Token Name  
EchoAI

Symbol  
ECHOAI

Contract Address  
0x27d68F0c6C2e48b6e3B41A9b72D0eD7b8c30C474

Network  
Ethereum

Language  
Solidity

Deployment Date  
Jul 22, 2023

Verified?  
Yes

Total Supply  
1,000,000,000

Status  
Not launched

## TAXES

Buy Tax  
**none**

Sell Tax  
**none**

\*Fees can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



## TOKEN TRANSFERS STATS

|                         |                           |
|-------------------------|---------------------------|
| Transfer Count          | 8                         |
| Uniq Senders            | 3                         |
| Uniq Receivers          | 4                         |
| Total Amount            | 3187600000.0000005 ECHOAI |
| Median Transfer Amount  | 593800000 ECHOAI          |
| Average Transfer Amount | 398450000.00000006 ECHOAI |
| First transfer date     | 2023-07-22                |
| Last transfer date      | 2023-07-24                |
| Days token transferred  | 2                         |

## SMART CONTRACT STATS

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Calls Count           | 35                                                                 |
| External calls        | 13                                                                 |
| Internal calls        | 22                                                                 |
| Transactions count    | 20                                                                 |
| Uniq Callers          | 4                                                                  |
| Days contract called  | 2                                                                  |
| Last transaction time | 2023-07-24 12:21:47 UTC                                            |
| Created               | 2023-07-22 17:14:11 UTC                                            |
| Create TX             | 0x0afe42cd4b6ee1f15f5ff32abc022ed3d899f79ea66a627f7fdf1919b51425ee |
| Creator               | 0x6d575c7b502ba81724084bcc288ade78ee27e5a4                         |



# VULNERABILITY CHECK

|                                                                |        |
|----------------------------------------------------------------|--------|
| Design Logic                                                   | Passed |
| Compiler warnings.                                             | Passed |
| Private user data leaks                                        | Passed |
| Timestamp dependence                                           | Passed |
| Integer overflow and underflow                                 | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery                               | Passed |
| Oracle calls                                                   | Passed |
| Front running                                                  | Passed |
| DoS with Revert                                                | Passed |
| DoS with block gas limit                                       | Passed |
| Methods execution permissions                                  | Passed |
| Economy model                                                  | Passed |
| Impact of the exchange rate on the logic                       | Passed |
| Malicious Event log                                            | Passed |
| Scoping and declarations                                       | Passed |
| Uninitialized storage pointers                                 | Passed |
| Arithmetic accuracy                                            | Passed |
| Cross-function race conditions                                 | Passed |
| Safe Zeppelin module                                           | Passed |
| Fallback function security                                     | Passed |



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ Low Risk

Owner can set buy fees up to 10% and sell fees up to 20%.  
Combined buy+sell = 30%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateBuyFees(uint256 _marketingFee) external onlyOwner {
    buyMarketingFee = _marketingFee;
    buyTotalFees = buyMarketingFee;
    require(buyTotalFees <= 10, "Must keep fees at 10% or less");
}

function updateSellFees(uint256 _marketingFee) external onlyOwner {
    sellMarketingFee = _marketingFee;
    sellTotalFees = sellMarketingFee;
    require(sellTotalFees <= 20, "Must keep fees at 20% or less");
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



## Informational

Owner can exclude address from max transaction limit.

```
function excludeFromMaxTransaction(  
    address updAds,  
    bool isEx  
) public onlyOwner {  
    _isExcludedMaxTransactionAmount[updAds] = isEx;  
}
```

Owner can set max transaction limit but cannot lower it than 0.1% of total supply.

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {  
    require(  
        newNum >= ((totalSupply() * 1) / 1000) / 1e18,  
        "Cannot set maxTransactionAmount lower than 0.1%"  
    );  
    maxTransactionAmount = newNum * (10 ** 18);  
}
```

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {  
    _isExcludedFromFees[account] = excluded;  
    emit ExcludeFromFees(account, excluded);  
}
```



## Informational

NB tokens can be withdrawn from the contract to marketing wallet. When this function is present, in cases BNB tokens are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function manualsend() external {  
    bool success;  
    (success, ) = address(marketingWallet).call{  
        value: address(this).balance  
    }("");  
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## Echo AI

### GOOD PRACTICES FOUND

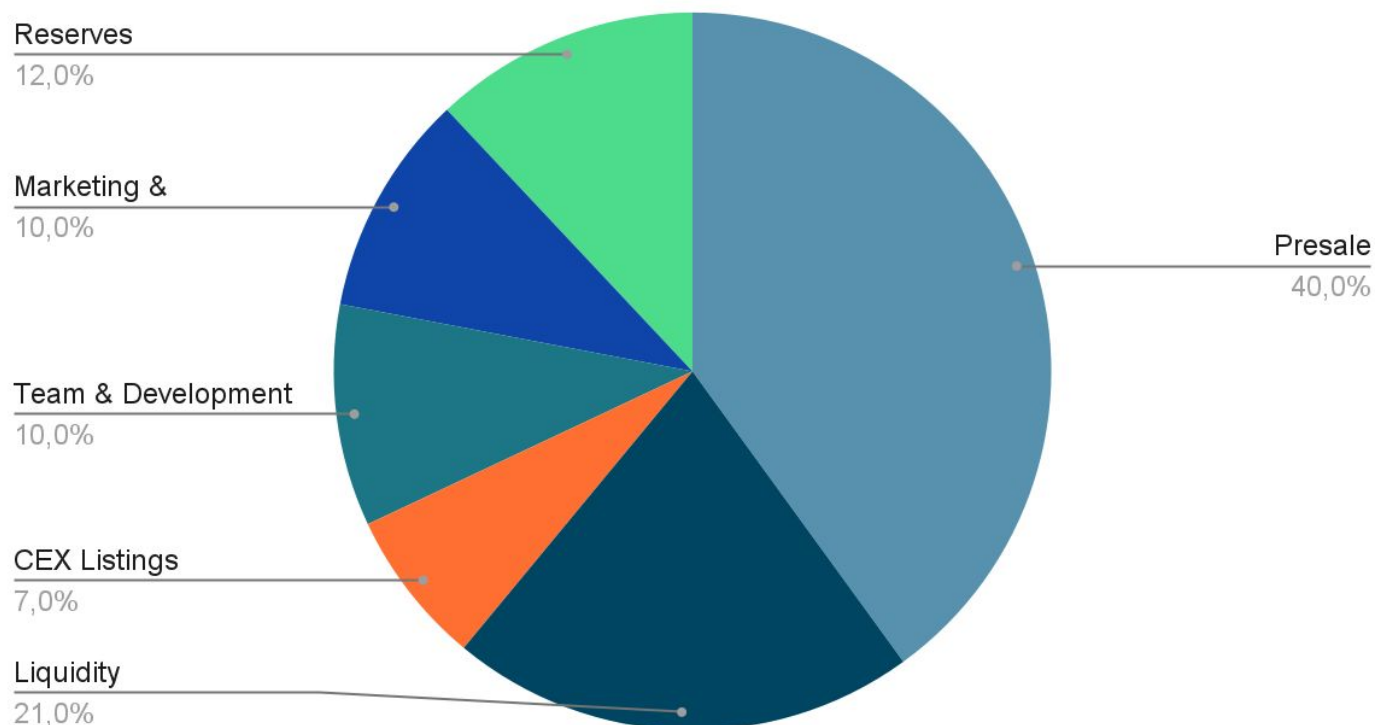
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can set a transaction limit, but can't lower it than 0.1% of total supply
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 40% - Presale
- 21% - Liquidity
- 7% - CEX Listings
- 10% - Team & Development
- 10% - Marketing & Community
- 12% - Reserves

### Tokens distribution



TOKENOMICS



# THE TEAM

! The team is  
anonymous

## KYC INFORMATION

### No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





**Website URL**  
<https://echoaibot.io>

**Domain Registry**  
<https://www.namecheap.com/>

**Domain Expiration**  
2024-05-25

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

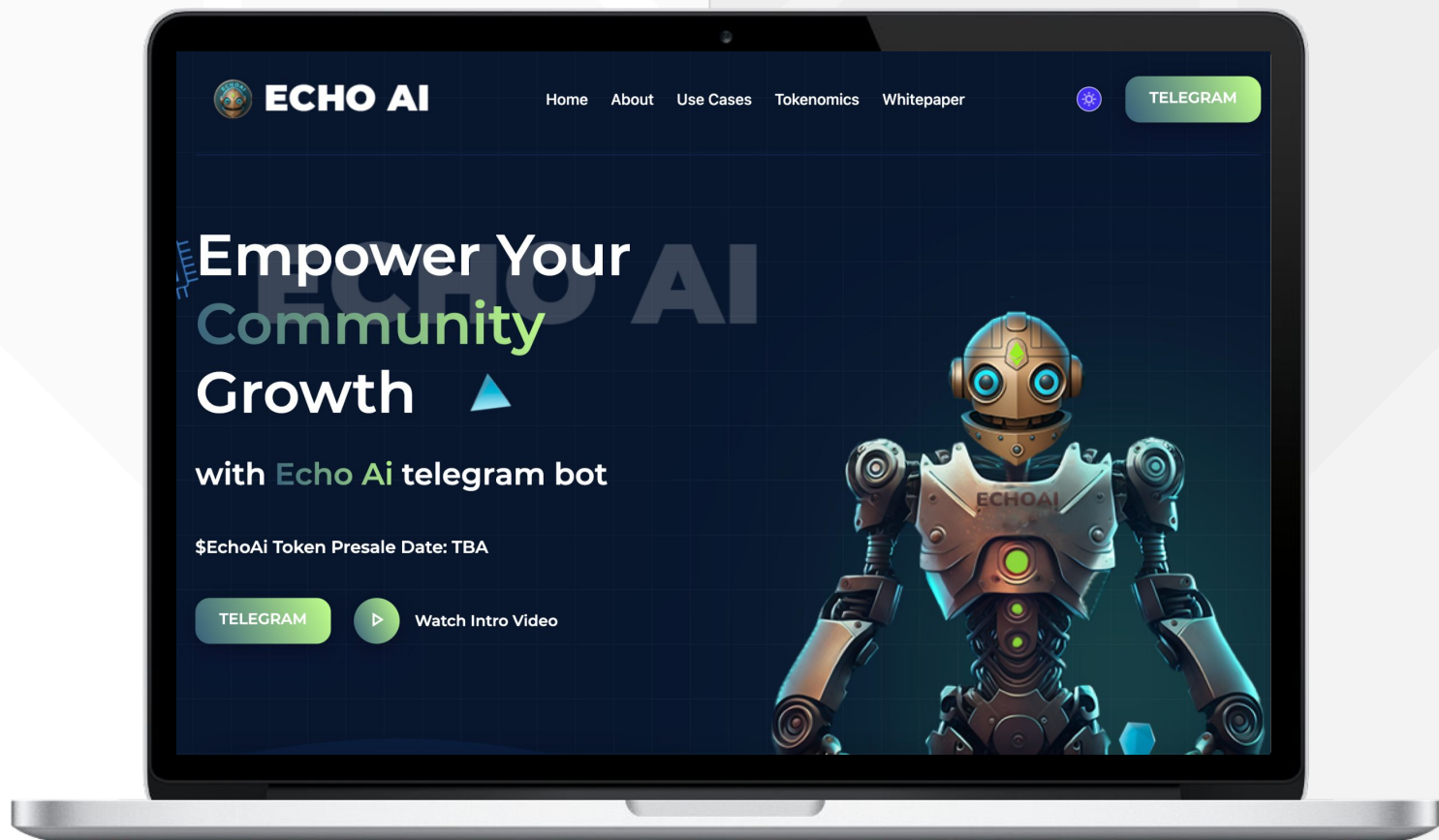
**Design**  
Single page design with appropriate color scheme and graphics.

**Content**  
The information helps new investors understand what the product does right away.  
No grammar mistakes found.

**Whitepaper**  
Well written, explanatory.

**Roadmap**  
Yes, goals set without time frames.

**Mobile-friendly?**  
Yes



**echoaibot.io**





# SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS  
Project's social media  
pages are active



Twitter

@EchoAI\_ERC

- 288 followers
- Posts frequently
- Active



Discord

- Not available



Telegram

@TelegramUSERNAME

- 1 142 members
- Active members
- Active mods



Medium

- Not available





# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to  
[contact@spywolf.co](mailto:contact@spywolf.co) or  
[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.